

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	48	digital near (audio voice music sound) near mixer and @ad<"20001227"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/22 11:33
S2	884	((700/94) or (381/119)).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/22 11:35
S3	400	S2 and @ad<"20001227"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/22 11:35
S4	1	("5621805").PN.	US-PGPUB; USPAT	OR	OFF	2005/02/22 12:00
S5	1	("5621805").PN.	US-PGPUB; USPAT	OR	OFF	2005/08/30 12:55
S6	4	("5159453"   "5231240"   "5392284"   "5402499").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/26 17:02
S7	2	((("5341,253") or ("5608,707"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/04/27 12:05
S8	151	(369/4).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/08/30 12:55
S9	57	S8 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 12:55
S10	182	(369/2).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/08/30 13:01
S11	52260	"l1" and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 13:01
S12	13446	"l4" and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 13:01
S13	76	S10 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 13:10
S14	20	381/119.ccls. and 381/107.ccls.	US-PGPUB; USPAT	OR	OFF	2005/08/30 13:11
S15	8455284	S14 and @ad<"20001228"	US-PGPUB; USPAT	OR	OFF	2005/08/30 13:11
S16	18	S14 and @ad<"20001228"	US-PGPUB; USPAT	OR	OFF	2005/08/30 13:11
S17	267	381/107.ccls. and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 10:35

## EAST Search History

S18	75	381/102.ccls. and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 13:16
S21	42	determine near (scale amplif\$6 attenuat\$4) with processor and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 16:28
S22	61	determine near (scale amplif\$6 attenuat\$4) same (audio sound music) and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 16:28
S23	27	automatic with digital with volume adj control and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 16:54
S24	12	(computer adj server).ti. and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 16:56
S25	1198	(personal adj computer adj server) and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 16:56
S26	6	(personal adj computer adj server). ab. and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2005/08/30 16:56
S27	54	(US-20030091204-\$).did. or (US-6597961-\$ or US-4939714-\$ or US-5166835-\$ or US-5060273-\$ or US-6259957-\$ or US-RE30482-\$ or US-5225945-\$ or US-6181798-\$ or US-4555737-\$ or US-5055939-\$ or US-4423441-\$ or US-4327382-\$ or US-5774478-\$ or US-4947255-\$ or US-5513267-\$ or US-5960092-\$ or US-4210781-\$ or US-4907277-\$ or US-4803684-\$ or US-5687240-\$ or US-5673363-\$ or US-4604657-\$ or US-5487067-\$ or US-5757941-\$ or US-4409682-\$ or US-5805537-\$). did. or (US-5524060-\$ or US-6681018-\$ or US-6259793-\$ or US-4627098-\$ or US-5526434-\$ or US-5954834-\$ or US-4030129-\$ or US-4763293-\$ or US-4493047-\$ or US-4497055-\$ or US-4541089-\$ or US-4851934-\$ or US-6353169-\$ or US-5592398-\$ or US-5396618-\$ or US-4757518-\$ or US-5451942-\$ or US-5493547-\$ or US-5406634-\$ or US-5812685-\$ or US-4922536-\$ or US-5644365-\$ or US-4852168-\$ or US-5416529-\$ or US-6534700-\$). did. or (US-3470533-\$ or US-3224115-\$).did. or (GB-2140248-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/03/08 13:32
S28	32	("4769839"   "4814761"   "5054044"   "5175771"   "5212733"   "5276682"   "5349583").PN. OR ("5487067").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 14:58

## EAST Search History

S29	152	scale with relation with (audio sound music)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 14:58
S30	0	scale with relation with (audio sound music) with compare and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 14:59
S31	25	scale with relation with (audio sound music) and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:00
S32	0	equalize with two with (audio sound music) with file!	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:01
S33	3	equalize with (audio sound music) with file!	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:00
S34	15	equalize with two with (audio sound music) and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:02
S35	63	remote adj mixer	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:02
S36	5	remote adj mixer and (sound audio music) and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:03
S37	2	compare with (audio sound music) with equalize	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:03
S38	17	("4969385"   "5283638"   "5444676"   "5541354").PN. OR ("5768126").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:11
S39	21	equalizing with multiple with (audio sound music)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:11
S40	9	equalizing with multiple with (audio sound music) and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:22
S41	26	equalizing with plurality with (audio sound music) and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:23
S42	0	analyze with (audio sound music) with equalize	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:23
S43	51	analyz\$4 with (audio sound music) with equaliz\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:23

## EAST Search History

S44	29	analyz\$4 with (audio sound music) with equaliz\$4 and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 12:55
S45	41	compare with (audio sound music) adj file!	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:25
S46	0	compare with (audio sound music) adj file! same equalize	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:25
S47	0	compare with (audio sound music) adj file! same equaliz\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:25
S48	0	(compare with (audio sound music) adj file!) with mix\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:25
S49	0	(compare with (audio sound music) adj file!) same gain	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:25
S50	6	compare with (audio sound music) adj file! and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:26
S51	0	gain same compare same (audio sound music) adj file! and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:28
S52	0	analy\$4 same gain same (multiple plurality) near (audio sound music) near (stream! file!)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:29
S53	6	analy\$4 same (multiple plurality) near (audio sound music) near (stream! file!)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:29
S54	80	(compar\$4 analy\$4 determin\$4) with (pluraity multiple two) with (audio sound music) with gain	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:30
S55	7	("4882762"   "5500902"   "5550902"   "5724433"   "5832097"   "5832444"   "5848171").PN. OR ("6873709").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:50
S56	10	((compare analyze determine) near3 (scale gain)) same (plurality multiple) near3 (audio sound music)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:53
S57	380	((compare analyze determine) near3 (audio sound music)) same (scale gain attenuate amplify)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:54
S58	0	((compare analyze determine) near3 ((audio sound music) adj files!)) same (scale gain attenuate amplify)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:55

## EAST Search History

S59	0	((compare analyze determine) near3 ((audio sound music) adj file)) same (scale gain attenuate amplify)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 15:55
S60	154	((compare analyze determine) near3 (audio sound music)) same (scale gain attenuate amplify) and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 16:05
S61	76	gaddy.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 16:05
S62	0	gaddy.in. and marshall.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 16:05
S63	0	"09751151"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 16:50
S64	5	compare with (two plurality multiple) with (audio music sound) same (amplify attenuate gain sclae) and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 16:52
S65	334	381/119.ccls. and @ad<"200012267"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 16:52
S66	178	381/119.ccls. and @ad<"20001227"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/08 18:00
S67	6	(("6,018,726") or ("5,697,844") or ("5,561,709") or ("5,499,921") or ("5,252,775") or ("4,593,904")).PN.	US-PGPUB; USPAT	OR	OFF	2006/03/08 18:00
S68	138	normali\$4 with (multiple two plurality) with (audio sound music)	US-PGPUB; USPAT	OR	OFF	2006/03/13 12:54
S69	63	S68 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 10:36
S70	12	("5506907"   "5519681"   "5587978"   "5590108"   "5737720").PN. OR ("5859826").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 11:37
S71	4	S70 and scale	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 11:37
S72	11070	(multiple two plurality "multichannel" "multi channel" "multi-channel") near3 scale and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:42

## EAST Search History

S73	1	(multiple two plurality "multichannel" "multi channel" "multi-channel") near3 scale near (audio sound music) and (mixer mix multiplex\$4) and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:43
S74	6	(multiple two plurality "multichannel" "multi channel" "multi-channel") near3 scale near (audio sound music) and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:47
S75	201	(369/4,5).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:47
S76	80	S75 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:54
S77	452	(381/104).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:54
S78	232	S77 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:55
S79	1298	(381/104-109).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:59
S80	672	381/119	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:55
S81	2161	((381/119) or (369/4,5,47.2,275.3)). CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:56
S82	72	S79 and S81	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:56
S83	52	S82 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 11:56
S84	827	S79 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:00
S85	52	S80 and compare	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:00
S86	80	S84 and compare	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:02
S87	0	compare with digital adj (audio sound music) same ("scale factor")	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:02
S88	0	compare with digital adj (audio sound music) same scale	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:02
S89	127	(scale attenuate amplify) with (audio sound music) with (plurality multiple two) with (determin\$4 analy\$4 compar\$4)	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:11
S90	59	S89 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:03
S91	113	381/59.ccls. and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:19

## EAST Search History

S92	188	381/56.ccls. and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2006/03/09 12:23
S93	0	((("US-5,371,428A") or ("US-6,232,702B1") or ("US-4,864,918") or ("US-US20030011282A1") or ("US-5,965,970A") or ("US-5,481.152A") or ("US-6,348,115B1") or ("US-6,045,642A") or ("US-2,477,596") or ("US-4,283,605") or ("US-6,274,261B1"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/10/27 16:45
S94	3	((("5,371,428A") or ("6,232,702B1") or ("4,864,918") or ("20030011282A1") or ("5,965,970A") or ("5,481.152A") or ("6,348,115B1") or ("6,045,642A") or ("2,477,596") or ("4,283,605") or ("6,274,261B1"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/10/27 16:46
S95	10	((("5,371,428") or ("6,232,702") or ("4,864,918") or ("20030011282") or ("5,965,970") or ("5,481.152") or ("6,348,115") or ("6,045,642") or ("2,477,596") or ("4,283,605") or ("6,274,261"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/10/27 16:49
S96	1	("6771785").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/27 16:49
S97	18	("3783202"   "3816671"   "3908098"   "4081626"   "4122302"   "4291244"   "4404489"   "4695986"   "4786837"   "4823908"   "4887248"   "4963782"   "5287331"   "5539705"   "5600610"   "6151398"   "6570300"   "6584206").PN. OR ("6771785").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 16:50
S98	10	S97 and insul\$5	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 17:00
S99	713	(layer blanket) and (transducer! microphone!) and ((acoustic) with insul\$5)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 16:54
S10 0	324	(layer blanket) with (transducer! microphone!) and ((acoustic) with insul\$5)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 16:54
S10 1	139	(layer blanket) with (transducer! microphone!) same ((acoustic) with insul\$5)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 16:54
S10 2	14	(layer blanket) with (transducer! microphone!) same ((acoustic) adj insul\$5)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 16:54

## EAST Search History

S10 3	4	("2746026").URPN.	USPAT	OR	OFF	2006/10/27 16:56
S10 4	18	("3783202"   "3816671"   "3908098"   "4081626"   "4122302"   "4291244"   "4404489"   "4695986"   "4786837"   "4823908"   "4887248"   "4963782"   "5287331"   "5539705"   "5600610"   "6151398"   "6570300"   "6584206").PN. OR ("6771785"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 16:59
S10 5	0	(acoustic adj insulat\$4) with (multiple plurality) with tranducer!	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 17:01
S10 6	0	(acoustic adj insulat\$4) with tranducers	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 17:01
S10 7	0	(acoustic adj insulat\$5) with tranducers	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 17:01
S10 8	0	(acoustic adj insulat\$5) with tranducer	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 17:01
S10 9	6	(acoustic adj insulat\$4) with (multiple plurality) with transducer!	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/27 17:01
S11 0	4	"6206134"	US-PGPUB; USPAT	OR	OFF	2006/10/27 17:17
S11 1	6	normalize with (audio adj file!)	US-PGPUB; USPAT	OR	OFF	2007/05/10 10:48
S11 2	1	equalize with (audio adj file!)	US-PGPUB; USPAT	OR	OFF	2007/05/10 10:49
S11 3	0	369/43.ccls. and 381/119	US-PGPUB; USPAT	OR	OFF	2007/05/10 10:49
S11 4	0	369/43.ccls. and 381/119.ccls.	US-PGPUB; USPAT	OR	OFF	2007/05/10 10:49
S11 5	92	(369/43.ccls. 381/119.ccls.) and file	US-PGPUB; USPAT	OR	OFF	2007/05/10 10:49
S11 6	42	S115 and @ad<"20001227"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:31
S11 7	1	("5774567").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:34
S11 8	0	("scalefactor"with"rootmeansquar\$3 "with"peakabsolute").PN.	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:35
S11 9	0	"scale factor" with "root mean squar\$3" with "peak absolute"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:35



## EAST Search History

S12 0	0	"scale factor" same "root mean squar\$3" same "peak absolute"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:35
S12 1	0	"scale factor" and "root mean squar\$3" and "peak absolute"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:35
S12 2	4	"scale"and "root mean squar\$3" and "peak absolute"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:35
S12 3	0	"381.class" and "root mean squar\$3" with "peak absolute"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:37
S12 4	0	"381.class" and "root mean squar\$3" and "peak absolute"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:37
S12 5	0	"381.class" and ("root mean squar\$3" rms) and "peak absolute"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:37
S12 6	0	"381.class" and ("root mean squar\$3" "rms") and "peak"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:37
S12 7	0	"381.class" and (("root mean" adj squar\$3) "rms") and "peak"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:37
S12 8	17616	((("root mean" adj squar\$3) "rms") and "peak"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:38
S12 9	4766	((("root mean" adj squar\$3) "rms") with "peak"	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:38
S13 0	48	((("root mean" adj squar\$3) "rms") with "peak" with scale	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:38
S13 1	16	((("root mean" adj squar\$3) "rms") with "peak" with scale adj factor	US-PGPUB; USPAT	OR	OFF	2007/05/10 11:38
S13 2	2225	((700/94) or (381/119,107) or (369/4)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/19 10:45
S13 3	0	"automatically determining scale factors" and "combining each of said scaled"	US-PGPUB; USPAT	OR	OFF	2007/11/19 10:45